UN884014984/30 | CS34R BLU C6 4/23 F/UTP RL 3KFT



CS34R Category 6 F/UTP Cable, non-plenum, blue jacket, 4 pair count, 3000 ft (914 m) length, reel

Product Classification

Regional Availability	North America
Portfolio	Uniprise®
Product Type	Twisted pair cable
General Specifications	
Product Number	CS34R
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Type	Solid
Jacket Color	Blue
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568.2-D CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
Dimensions	
Cable Length	914.4 m 3000 ft
Diameter Over Jacket, nominal	7.315 mm 0.288 in
Jacket Thickness	0.508 mm 0.02 in
Conductor Gauge, singles	23 AWG
Drain Wire Gauge	26 AWG

Cross Section Drawing

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COMMSCOPE®

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Jacket	
Pair Insulation	
Isolator	
Conductor	
Core Wrap —	
Shield —	
Drain Wire	

Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8 ohms/100 m 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V
Remote Powering	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
Safety Voltage Rating	300 V

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Electrical Cable Performance

3KFT

CS	CommScope		
STD	Refers to the standard value listed under Transmission Standards in th	e Electrical Specificat	tions above
ТҮР	Typical Electrical Performance		
IL	Insertion Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)	PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)	RL	Return Loss (dB)
TCL	Transverse Conversion Loss (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq. MHz	L		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр
1	2	1.7	74.3	87.7	72.3	85.9	72.3	85.3	70.3	83.6	67.8	88.5	64.8	85.8	20	31.2
4	3.8	3.3	65.3	82	61.5	78.7	63.3	79.8	59.5	76.4	55.8	80.8	52.8	79	23	32.7
8	5.3	4.7	60.8	76.7	55.4	72	58.8	74.6	53.4	69.9	49.7	75	46.7	73.2	24.5	35.3
10	6	5.2	59.3	74.4	53.3	69.1	57.3	72.5	51.3	67.3	47.8	73	44.8	71.2	25	36.5
16	7.6	6.7	56.2	71.2	48.7	64.6	54.2	69.3	46.7	62.6	43.7	69.2	40.7	67.2	25	36.6
20	8.5	7.5	54.8	69.8	46.3	62.3	52.8	67.9	44.3	60.4	41.8	67.3	38.8	65.4	25	36.3
25	9.5	8.4	53.3	68.4	43.8	60.1	51.3	66.4	41.8	58.1	39.8	65.3	36.8	63.5	24.3	35.6
31.25	10.7	9.3	51.9	66.9	41.2	57.6	49.9	64.9	39.2	55.6	37.9	63.4	34.9	61.6	23.6	33.9
62.5	15.4	13.3	47.4	62.8	32	49.5	45.4	60.8	30	47.6	31.9	57.3	28.9	55.4	21.5	31.3
100	19.8	16.9	44.3	59	24.5	42.2	42.3	57.1	22.5	40.3	27.8	53.4	24.8	51.6	20.1	27.1
155	25.2	21.1	41.4	55.6	16.3	34.5	39.4	53.8	14.3	32.7	24	49.5	21	47.5	18.8	23.7
200	29	24.1	39.8	52.1	10.8	28	37.8	50.6	8.8	26.6	21.8	47.6	18.8	45.5	18	21.8
250	32.8	27	38.3	51.1	5.5	24.1	36.3	49.4	3.5	22.4	19.8	45.3	16.8	43.2	17.3	20.1
300		29.7		50.1		20.4		48.3		18.6		43.5		41.6		19.1
350		32.2		48.8		16.7		47		14.8		42.3		40.2		18.1
400		34.5		47.3		12.7		45.6		11		40.9		38.9		17.2
500		39		44		5		42.5		3.5		39		36.9		15.9
550		41.1		43.2		2.1		41.6		0.5		36.2		33.8		15.5
650		45		43.4		-1.6		41.5		-2.5		34.6		32.3		15

Material Specifications

Conductor Material	Bare copper
Drain Wire Material	Tinned copper
Insulation Material	Polyolefin
Jacket Material	PVC
Separator Material	Polyolefin
Shield (Tape) Material	Polyester/Aluminum shield

Mechanical Specifications

Pulling Tension, maximum

11.34 kg | 25 lb

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Environmental Specifications

Installation temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Environmental Space	Non-plenum
Flame Test Method	CMR NEC Article 800 UL 1666 UL 444
Packaging and Weights	
Cable weight	50.746 kg/km 34.1 lb/kft

50.746 kg/km | 34.1 lb/kft

Packaging Type

Reel

Regulatory Compliance/Certifications

Classification

Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

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